

THE TECH

Vol. XXVII. No. 12

BOSTON, MASS., MONDAY, OCTOBER 28, 1907

PRICE THREE CENTS

FRESHMEN ARE STARS AT FALL MEET.

**GOOD PERFORMANCES. OLD TIMERS
FAIL TO APPEAR.**

K. D. Fernstrom '10 and W. J. Seligman
'11 Take Individual Honors.

That the Freshmen Class contains a number of first rate track men was shown yesterday at the annual Fall Handicap Games at Technology Field. The Freshmen carried off numerous firsts, the star of the class being W. J. Seligman, the former Brookline High School Relay man, who captured first honors in the 100 and 220-yard dashes.

In the points there was a great fight between the Freshmen and Sophomores, the former winning out with 46 while the latter were one point behind with 45. The Seniors did exceedingly well with only a few men, making 33 points, while the Juniors came last with 19 points.

K. D. Fernstrom of the Sophomore Class was again a star, winning first in the high and low hurdles, and fourth in the 100-yard dash and half mile. Last year in the handicap meet he duplicated these performances.

In the 100-yard dash the veteran C. W. Gram, '09, was too heavily handicapped to be in the fight. In the final heat the runners came down the stretch well bunched. Gram was shut out half way through, the fight being between James, Cummings and Seligman for the first place. Seligman carried off the honors by a little faster sprint toward the end.

Seligman again came to the fore in the 220-yard dash. Gram was again over handicapped and was easily beaten in the first heat by James. Seligman secured the second heat with ease while Potter and Prentiss had a good fight in the third heat, the latter winning. Gram did not have a look in in the final heat, Seligman carrying off easy honors. The other honors were sharply contested for, Morrison securing second by only a slim margin with Potter and Prentiss closely following.

There was some fast running in the quarter mile, Cummings holding a slight lead throughout the distance, coming in for a win. H. W. Blackburn, '08, Tech's best quarter-miler, was badly handicapped and lost out, securing only a fifth place. Potter and Lockett were at Cummings' heels at the finish.

Between White '11 the Irish runner, and Salisbury '11 the star from Hill school, there was the prettiest fight of the day. E. Stuart led throughout the first lap until caught by Salisbury on the back stretch. The latter held the lead up to the turn when White passed him just as the runners turned into the home stretch. For 75 yards it was nip and tuck fight, White winning by a small margin.

Gimson, almost overwhelmed by his handicap, was just able to squeeze in for first in the mile run. There was a good fight all the way through between Cooley, the Brookline star, and MacCreddie '11, the old star from Andover, the former winning out by a small margin.

The two mile was not a very interesting event, owing to the non-appearance of the scratch man, Captain Howland of the cross country team. Batchelder, an old cross country team man, walked off with first in an easy manner.

In the high and low hurdles there were few entries. There was a good fight between the two men entered in the high hurdles, Fernstrom securing first.

In the field events there were no very good performances outside of Christie's work in the broad jump and Nisbet's good throwing in the discus event. Dean Burton's son, F. A. Burton, a graduate of Bowdoin, carried off the hammer throw in easy style with a fair throw. The pole vault was a fizzle without Captain Orr. It was expected that there would be a good fight between Orr and Salisbury, the new man from Hill school.

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SOPHOMORES WIN IN POORLY PLAYED GAME.

DEFEAT BRIDGEWATER 6-0.

Saul Plays Splendid Game in
the Backfield.

In a loosely played game the 1910 football team defeated Bridgewater Saturday on the latter's home grounds by the score of 6 to 0.

In the first half the defense on both sides was very poor, and the ball changed hands again and again. The forward pass and onside kick were often but unsuccessfully used, and resort was finally made to the line plays. Saul did splendid work in his part of the game and after heavy and constant pounding on Bridgewater's line, was carried over for a touchdown. Saul kicked goal. Score 6-0. Time was called shortly afterward.

Open plays were again attempted in the second half, this time with better success. During the half 1910 put in several substitutes. Saul was taken out.

Saul and Wallower played the star games for 1910 and Wheeler and Prario excelled for Bridgewater.

The summary:

Bell l.e.	r.e. Hickett
Emerson (Adams) l.t.	r.t. Houghton
Manson l.g.	r.g. Lincoln
Gott c.	c. Fox
Fitzwater r.g.	l.g. Fraher
Wallower r.t.	l.t. Gammons
Loutit r.e.	l.e. Prario
Billings q.b.	q.b. Wheeler
O'Hearn (Huber) l.h.b.	r.h.b. Weeber
Saul (Darrow) f.b.	f.b. Ames
Hurley (Ruckmann) r.h.b.	l.h.b. McD'D
Referee, Hinds; Umpire, Randall;	
Timer, Terry; Linesmen, Grover, Endicott.	

Touchdown by Saul. Goal by Saul. Time 15-minute halves.

SOPHS HOLD LOVE FEAST.

**Plans For Field Day Discussed.
Blachstein Delights All.**

That the class of 1910 is still alive was clearly demonstrated at the dinner on Saturday evening, where 160 members of the class sang and cheered the various teams.

Captain Manson of the Football Team, who was called up by rousing cheers, said that, judging from the showing already made by the team, the score on Field Day will be greater than that of last year.

Dean Burton predicted a hard contest for the coming Field Day, and spoke at some length on the irrationality of the traditional night-before combat.

Prof. Fay of the Chemical Department was the next speaker. He told of the impressions that the Technology spirit had made upon him while here, and upheld the value of a technical training.

Dudley spoke a few telling words on the prospects of the Tug-of-War Team.

Prof. Richards told of his summer's work on the last volume of his well-known mining treatise and of the new

(Continued on page 4.)

PROF. DALY TO ADDRESS MINERS.

First Meeting of the Society Wednesday Evening.

"Ore Genesis of the Sudbury District" will be the subject of Prof. R. H. Daly's address at first meeting this year of the Mining Engineering Society at the Union Wednesday evening. Prof. Daly was formerly with the Canadian Geological Survey, and is considered an authority on this subject. This year the Institute secured him for the Geological Department.

The officers of the Mining Engineering Society are: W. J. E. Barcus, '08, president; P. H. Maxwell, '08, vice-president and treasurer; A. L. Dickerman, '09, secretary. The executive council is composed of M. S. Clark, '08, G. T. Bridgman, '09, and the president, vice-president, and secretary. Meetings of the society are held once a month.

TERRIBLE SLAUGHTER BY DEAN ACADEMY.

**FRESHMEN OVERWHELMED AT
FRANKLIN 35-0.**

Many Injuries Sustained.

In the fourth game of the season the Freshmen Football Team was clearly outclassed Saturday by Dean Academy, and beaten by the score 35-0 on their opponents grounds. From the start of the game it was clearly evident that Dean had the better team, and they scored on the Freshmen practically at will.

On the first kick-off Vance received the ball for Dean and aided by brilliant interference ran the length of the field for a touchdown. From that time on to the end of the half the Tech team played very good ball, but by means of two forward passes, assisted by fumbles on the part of the Freshmen, Dean was able to score two more touchdowns. They kicked one goal. At the close of the half the score stood 17 to 0.

The summary:

Dean Academy	M. I. T. 1911
Daley l.e.	r.e. Spalding (Schatz Smith)
Secoy l.t.	r.t. O'Neill
Atkins (Rice) l.g.	r.g. Van Tassel (Capt.)
Fairbanks c.	c. Ketching
Waldon (Jackman) r.g.	l.g. Hutchins
Hegarty r.t.	l.t. Fitz-Hubert
McKenzie r.e.	l.e. De Floriez
May (Phillippo) q.b.	q.b. Coupal (Watson)
Vance r.h.b.	l.h.b. Rush (Biglow)
Rand (Chamberlain) f.b.	f.b. Pree
Dutton (Brennan) l.h.b.	r.h.b. Dresser (Spalding)

Touchdowns, by Daly, 1; Vance, 2; Dutton, 1; Rand, 2. Goals, by Fairbanks, 5. Referee, A. L. Moses. Umpire, Wyatt. Linesmen, Barrows, Odell. Time 20 minute halves.

WALKER CLUB RECEIVES TONIGHT.

**Will Meet All College Grads at the
Technology Club.**

At a meeting of the Walker Club, Friday at 1 o'clock, plans for the reception to graduates this evening were discussed. Two vacancies in the executive committee of the Club were filled by the election of M. E. Allen, '08, and J. J. Elbert, '09.

TEN MEN FENCING REGULARLY.

Loring Doing Better Than Ever Before

Fencing has been progressing very well lately. Ten men have been attending the club meetings three times a week. They are Doane, Glazier, Lange, Van Eetevelde, Nickerson, Weinhausen, Chinchilla, Loring, Gallegos, and Grubnan.

Captain Loring is doing better work this year than ever, and has been fencing since the first of the season. Doane, a Freshman, has just come, but is doing very creditable work. Glazier, of the same class, is also doing well, but he has had some previous experience. He is showing good spirit.

Lange, who was on the varsity team last year, is practicing regularly and should make good this year. Van Eetevelde is a Belgian who began fencing this year, and by steady and regular work this season will develop well.

Grubnan, although a beginner, is doing well. He is tall and gives already a good offensive attack. He should stand a good show for the varsity team. Weinhausen, who fenced last season, is out again this year. He is strong on the defense and fences in very good form. Chinchilla is quick and does very well considering that he is handicapped by trouble with his eyes.

Gallegos used to fence with duelling swords abroad and he is taking up the foils this year. He has good legs and is quick but does not show up regularly. Nickerson has had some previous experience, has quick hand, and may try for the varsity.

MANY CHANGES MADE IN CHEMICAL STAFF.

**PROF. TALBOT TO LECTURE AT
BROOKLYN.**

Many Instructors Leave and New Men
Take Their Places.

Several changes have taken place in the Chemical and Chemical Engineering Departments, due to the resignation of a number of last year's instructors.

Those who have resigned their positions are: Dr. Champion H. Mathewson, instructor in analytical chemistry; Miss Anna M. Cederholm, research-assistant in technical chemistry; and Dr. Raymond Haskell, instructor in theoretical chemistry, all of whom expect to teach this year; Ralph S. Gifford, assistant in theoretical chemistry, who expects to study abroad; and J. C. Hudgins and F. J. Quinlan, assistants in inorganic chemistry; A. L. Smith and F. J. Wilcox, assistants in analytical chemistry; Arthur Neale, assistant in technical analysis; and L. N. Bent, research-assistant in technical chemistry, all of whom are to take positions in the industrial field.

Dr. Mathewson of this department has spent the summer in the research laboratories of the General Electric Company at Schenectady, but will give instruction in metallography at Yale this year. A. L. Smith was also in the research laboratories at Schenectady this summer and expects to remain there for some time. Mr. Neale has a position with the Spencer-Kellogg Company at Buffalo, and Mr. Wilcox is located at Duquesne, Pa., with the steel industry.

Mr. Hudgins is now assisting at the Navy Yard, while Mr. Quinlan is with Warren Bros. of Cambridge. R. F. Jackson, formerly assistant to Prof. Crafts, has a position in the Bureau of Stand-

(Continued on page 3.)

WILL FILL WENDELL'S PLACE.

**Prof. Cross Will Give His Lectures. Much
New Apparatus Received by Physics
Department.**

The vacancy left in the Physics Department by the resignation of Dr. Wendell, who has assumed charge of the physics department of Stevens Institute, will not be immediately filled. Prof. Cross will continue to give throughout the term all the physics lectures.

The recitation work which Dr. Wendell controlled is now in charge of Prof. Drisko, who is assisted by Daniel F. Comstock, Ph.D., recently of the Cavendish Physical Laboratory, Cambridge, England; Herbert T. Kalms, Ph.D., formerly research associate in physical chemistry; Dr. Haskell, who received his degree from the Institute last year; and Mr. Page of the electrical laboratory.

Mr. Swan, of the Physics Department, is now at Harvard taking special work in mathematics and physics to be used later in his physical research.

The department has been greatly enriched this year by the addition of many valuable pieces of apparatus. A new Koenig spectro-photometer of the latest pattern of Schmidt and Haensch, Berlin, has been imported from Germany for use in investigation by Mr. Hollnagel of the optical absorption of liquid ammonia solutions of metallic sodium and potassium.

Several vacuum tubes made by Grumdelach in Germany have been added to already fine collection of this branch of apparatus. This collection is one of the finest and most extensive in the country, McGill University of Montreal having the only set that is at all comparable to it. There is also a Perrin's tube of modified form, devised by Prof. Thompson for proving that the cathode rays carry a negative charge. This tube was constructed for the Institute by Prof. Thompson's assistant in the Cavendish Laboratory in Cambridge, England.

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Monday, October 28, 1907.

CANDIDATES RETAINED.

In the competition for positions on the News Staff, a stage has been reached where only the best men may be retained. Therefore the following men will continue in the competition and all others will be expected to stop working: Clapp, '10; Glazier, '11; Green, '09; Hooker, '10; Kenney, '11; Ranger, '11; Stevens, '11; Wood, '11; and Woodruff, '11.

GIVES RECORDS OF 1910 NOMINEES.

Committee Tells of Men Up For Athletic Association.

To the Class of 1910:—

The following are the nominations for members of the Athletic Association from the Sophomore Class:

Karl Fernstrom; Capt. Freshman Relay, Sophomore Relay, Varsity Track Teams, and point winner at Jamestown Exposition.

F. B. Avery; Freshman and Sophomore Relay Teams. Andover track man.

B. Jones; English High School track manager. E. H. S. fencing team.

Geo. S. Emerson; Freshman and Sophomore Football teams. Amherst tennis team and Amherst football squad.

Philip Hart; Freshman Football and Sophomore Relay Teams, in athletics at prep.

E. R. Jackson; was out for Relay and Tug-of-War Teams, interested in athletics.

D. C. McMurtrie; Athletic Editor of THE TECH, present acting manager of the M. I. T. Track Team, official at all track meets last year.

John Avery, Freshman and Sophomore Relay Teams, manager Freshman Baseball Team.

Harold Lockett; Freshman and Sophomore Relay Teams.

A. K. Adams; Freshman Tug-of-War and Sophomore Football Teams.

Vote for five men. 1910 must be fittingly represented on the M. I. T. A. A. and it is therefore desirable that everyone in the class cast a vote, and cast it for the best men fitted for membership in the Association.

The polls will be open Wednesday at 1.00 P. M., and close Saturday at 1.00 P. M. Ballots may be procured and left at the Cage.

1910 Nominating Committee.—T. W. Saul, chairman; H. R. Elwell, R. Goodwin.

WILL FILL WENDELL'S PLACE.

(Continued from page 1.)

There will shortly arrive from Cologne, Germany, a Galde mercurial air pump for use in connection with experiments in high vacua. A rather unique piece of apparatus is the gyroscope, mounted to illustrate Mr. Brennan's mono-rail system of transportation.

There has been received for use in the electric chemical laboratory much new apparatus, including several high grade resistance boxes, electrical conductivity

apparatus, and apparatus for potential work. During the summer the equipment in the general physics laboratory has been extensively increased in order that all classes taking heat measurement may take simultaneously the laboratory work connected with that course. There has also been installed in the laboratory a new microscope, including accessories for micrometric measurements, work with polarized light, and an Abbe Camera Lucida.

FRESHMEN ARE STARS.

(Continued from page 1.)

Summary:

1st heat—won by C. W. Gram '09, scratch; G. B. Cummings '10, 4 yds., second; time 10.3-5s.

2nd heat—won by K. D. Fernstrom '10, 1 yd; F. C. Dolke '11, 6 yds., second; time 10.2-5s.

3rd heat—won by W. J. Seligman '11, 2 yds; J. S. James '11, 4 yds., second; time 10.1-5s.

Final heat—won by W. J. Seligman '11, 2 yds; J. S. James '11, 4 yds., second; G. B. Cummings '10, 4 yds., third; K. D. Fernstrom '10, 1 yd, fourth; time 10.2-5s.

220-YARD DASH.

1st heat—won by J. S. James '11, 6 1-2 yds; C. W. Gram '09, scratch, second. Time 23s.

2d heat—won by W. J. Seligman '11, 6 yds; W. Morrison '08, 12 yds., second. Time 23s.

3d heat—won by N. N. Prentiss '11, 13 yds; E. M. Potter '10, 15 yds., second. Time 23 1-5s.

FINAL HEAT.

Won by W. J. Seligman '11, 6 yds; W. Morrison '08, 12 yds., second; E. M. Potter '10, 15 yds., third; N. N. Prentiss '11, 13 yds., fourth. Time 22 4-5s.

440-YARD DASH.

Won by G. B. Cummings '10, 20 yds; E. M. Potter '10, 25 yds., second; H. Lockett '10, 20 yds., third; S. M. Spencer '11, 20 yds., fourth. Time 52 1-5s.

880-YARD RUN.

Won by P. D. White '11, 20 yds; W. C. Salisbury '11, 10 yds., second; B. L. Gimson '08, scratch; third; K. D. Fernstrom '10, 20 yds., fourth. Time 2m. 8 2-5s.

ONE MILE RUN.

Won by B. L. Gimson '08, 5 yds; L. C. Cooley, '11, 40 yds., second; W. T. MacCreadie '11, 15 yds., third; C. P. Eldred '11, 60 yds., fourth. Time 4m. 57 1-5s.

(Continued on page 3.)

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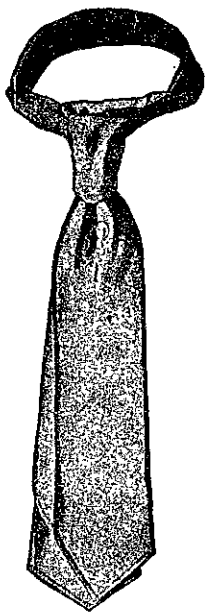
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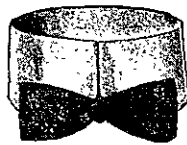
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MANY CHANGES MADE.

Continued from page 1.

ards in Washington. John H. Link, who last year acted as private assistant to Prof. Miliken, is working in the government food laboratory at New York.

The new members of the instructing staff in this department have been announced as follows: Robert S. Williams, instructor in analytical chemistry, who returns from study in Germany; Dr. E. B. Spear, instructor in analytical chemistry, who for the past year has been research-assistant in physical chemistry; R. C. Tolman, instructor in theoretical chemistry, who is a graduate student in physical chemistry; C. R. Bragdon, assistant in theoretical chemistry, and O. L. Peabody, assistant in analytical chemistry, both graduates in chemical engineering of 1907; W. W. Kennedy, assistant in organic chemistry, a graduate of the University of Minnesota; Messrs. W. B. Gonder, assistant in analytical chemistry, H. W. Mahr, research assistant in technical chemistry, R. G. Woodbridge, Jr., research assistant in organic chemistry, and F. P. Shields, assistant in technical analysis, all graduates in chemistry of 1907; C. B. Nickerson, assistant in inorganic chemistry, a graduate from Clarke University at Worcester; and P. S. Fiske, a graduate of Harvard, '07. Dr. Miles S. Sherrill, formerly an instructor, has been appointed assistant professor in theoretical chemistry. John F. Norton, assistant in inorganic chemistry is transferred to industrial chemistry, and George F. White is transferred from analytical chemistry to organic chemistry.

Prof. Talbot has been appointed a member of the International Commission on Chemical Analysis. He will deliver a course of six lectures before the Brooklyn Institute of Arts and Sciences on the electrolytic dissociation theory and its applications to analytical chemistry during February and March of next year. Prof. W. H. Walker has been made vice-president of the New England section of the Society of Chemical Industry. Prof. Gill has accepted a position on the committee on analysis of oils and like materials, in connection with the International Congress of Applied Chemistry.

D. E. Russ, '07, is with the Commonwealth Glue Co., and C. N. Draper, '07, returns as a graduate student.

FRESHMEN ARE ALL STARS

(Continued from page 2.)

TWO MILE RUN.
Won by C. L. Batchelder '08, 40 yds.; R. I. Hulsizer '09, 80 yds., second; M. Ames '08, 100 yds., third; J. N. Stephenson '09, 90 yds., fourth. Time 10m. 51s.

220-YARD HURDLES.
Won by K. D. Fernstrom '10, scratch; C. W. Gram '09, scratch, second; C. P. Kerr '11 10 yds., third; M. W. Hall '10, scratch, fourth. Time 28s.

120-YARD HIGH HURDLES.
Won by K. D. Fernstrom '10, scratch; W. D. Walcott '11, scratch, second. Time 18 3-5s.

RUNNING HIGH JUMP.
C. W. Wilson '10, 5 in., and A. R. Nagle '10, 6 in., tied for first, at height of 5 ft. 9 in. W. C. Salisbury '11, 5 in., third, 5 ft. 7 in.; R. L. Bartlett '10, 4 in., fourth, 5 ft. 6 in.

POLE VAULT.
Won by W. C. Salisbury '11, 4 in., 9 ft. 10 in.; W. D. Allen '11, 7 in., second, 9 ft. 7 in.

RUNNING BROAD JUMP.
Won by J. A. Christie '09, 14 in., distance 19 ft. 7 in.; W. Morrison '08, 12 in., second, 19 ft. 3 in.

SHOT PUT.
Won by W. Morrison '08, 4 ft., distance 399 ft. 4 1-4 in.; T. P. MacLaughlin '11, 7 ft., second, 36 ft. 3 in.; F. Moore '09, 1 ft., third, 33 ft. 3 in.; D. V. Williamson '10, 6 in., fourth, 33 ft. 11 in.

HAMMER THROW.
Won by F. A. Burton '10, 8 ft., distance 100 ft. 3 in.; M. Flagg '09, 3 ft., second, 99 ft. 11 in.; M. R. Scharff '09, scratch, 91 ft.

DISCUS THROW.
Won by L. D. Nisbet '08, scratch, distance 105 ft. 6 in.; D. V. Williamson '10, 12 ft., second, 102 ft.; L. E. Wemple '08, 8 ft., third, 100 ft. 3 in.; M. E. Allen '08, 9 ft., fourth, 94 ft. 3 in.

Referee, Frank H. Briggs, 80; Starter, Frank M. Kanaly; Judges at Finish, Dean A. E. Burton, Frank H. McGuigan '08, R. S. Franklin '04; Timers, Winfield Towne, Bowdoin; D. C. McMurtrie '10, T. W. Orr '08; Custodian of Prizes, Bursar Frank H. Rand; Clerk of Course, John T. Tobin '08; Announcer, B. Jones '10; Measurers, George A. Haynes '09, W. Fred Dolke '08, Bergen Reynolds '10; Field Judges, George T. Glover '08, H. W. Ferris '08, A. L. Moses '09.

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The Review aims to develop closer relations among Institute men and to stimulate their interest in the work of the College. It is in no sense an engineering magazine, but deals broadly with the problems of Technological Education and the responsibilities of the professional man.

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CALENDAR.

Monday, October 28, 1907.

- 1.00 P. M. Meeting of the Board of Editors of THE TECH in 30 Rogers.
- 1.00 P. M. British Empire Association Meeting in 16 Rogers.
- 4.00 P. M. 1911 Nominations Due at the Cage.
- 4.00 P. M. Mandolin Club Rehearsal in 33 Rogers.
- 4.00 P. M. Glee Club Rehearsal.
- 5.00 P. M. Walker Club Reception at the Technology Club.

Tuesday, October 29, 1907.

- 1.00 P. M. Meeting of Candidates for the News Staff in 30 Rogers.
- 4.00 P. M. Banjo Club Rehearsal in 33 Rogers.
- 8.00 P. M. Mechanical Engineering Society Meeting at the Union.

Wednesday, October 30, 1907.

- 1.00 P. M. 1908 Ballots Due at the Cage.
- 4.00 P. M. 1909 Nominations Due at the Cage.
- 8.00 P. M. Mining Engineering Society at the Union.

NOTICES.

BRITISH EMPIRE.—The British Empire Association will meet today at 1.00 P. M. in 16 Rogers.

THE TECH.—There will be a meeting of the Board of Editors of THE TECH today at 1.00 P. M. in 30 Rogers.

CANDIDATES.—There will be a meeting of candidates for the News Staff tomorrow at 1.00 P. M. Every man is expected to be present.

1909.—Nominations must be at the Cage before 4.00 P. M. Wednesday. The 1909 Class Constitution will be at the Cage today for new members to sign.

1911.—Nominations for class officers must be left at the Cage or with a member of the Nomination Committee before 4.00 P. M. today. The officers to be elected are president, vice-president, secretary, treasurer, and clerk, two directors, two representatives to the Institute Committee, and five members of the Institute Association. The class constitution will be upon the table in Rogers today from 1.00 to 2.00 P. M. for class members to sign. No vote is good unless the constitution has been signed. Members of the Nomination Committee are C. S. Anderson, L. G. Odell, P. A. Cushman, N. J. Smith and E. R. Davis.

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SOPHS HOLD LOVE FEAST.

(Continued from page 1.)

type of mining machine which he has given to the scientific world after thirty-five years of work.

Frank Stewart, captain of the Relay Team, compared his men to the jack rabbits in fleetness of foot.

Blackie, greeted with resounding cheers, gave one of his characteristic talks, well sprinkled with anecdotes taken from his usual list of notes. Mr. Blackstein closed his speech with an outline of his recent trip abroad.

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